

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Susan L. Acton et al.

Serial No.: not yet assigned

Filed: Herewith

For: *DIAGNOSTIC ASSAYS AND KITS FOR BODY
MASS AND CARDIOVASCULAR DISORDERS*

Attorney Docket No.: MNI-172CP2

Assistant Commissioner for Patents
Box Sequence Listing
Washington, D.C. 20231

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Signature

Nelson F. Barros

Nelson F. Barros

Please Print Name of Person Signing

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SEQUENCE LISTING

<110> Acton, Susan L.
 Ordovas, Jose M.
 McCarthy, Jeanette J.

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 CARDIOVASCULAR DISORDERS

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ccgccccaaa acggaagcga ggccgtgggg gcagcggcag catggcgggg cttgtcttgg 360
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 cccgcctgtg tcgtctctgt cgcggtcccc gtctcctgcc aggcgcggag ccctgcgagc 660
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 ggcgaccgca gcggaatcgg cggccgggcc tggcgccgca gaacacgagg gaggccaggc 960
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<210> 6

<211> 479

<212> DNA

<213> Human

<400> 6

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 tttgacgtca tgaaccccag cgagatcctg aagggcgaga agccgcaggt gcgggagcgc 300
 gggccctacg tgtacaggtg aggctgtgtc cacgtgatgg tggacgggcc ggctgacgct 360
 gggcatggga cgggtctcaa gtggacggga tggggaggct gctgactgac ccccaaacat 420
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<210> 7

<211> 495

<212> DNA

<213> Human

<400> 7

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 ctgcaccct gacctgtcc cctgtctctc ctcccgctg ccccttgtgc agagagcagt 420
 ccctgaggtg gtcggagcgt ggggactcac gcctgggtgg tggttttcgg ccctgtgctg 480
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<210> 8
 <211> 526
 <212> DNA
 <213> Human

<400> 8
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 ccacgtccag cctctgacac tagtgtccct tcgccttgca gggtgccggc gtgatgatgg 180
 agaataagcc catgacctg aagtcacatca tgaccttggc attcaccacc ctggcggaac 240
 gtgccttcat gaaccgact gtgggtgaga tcatgtgggg ctacaaggac cccctgtgaa 300
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 tgaggtacgt gtggcctggg gagaagccaa agattcaggc ctgtgtcctg tcttcccctc 420
 acacagcctg gacactggc accagcttgc tttgtagctg gctggggatc tagtggctgt 480
 gggttgtaag tgactgagaa cctgactcaa accggcttga gtgaaa 526

<210> 9
 <211> 416
 <212> DNA
 <213> Human

<400> 9
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 ggcctaagcc ttacgatgct gttccctgct gtgtctgtag ctcaacaact ccgactctgg 180
 gctcttcacg gtgttcacgg gggccagaa catcagcagg atccacctcg tggacaagtg 240
 gaacgggctg agcaaggtga ggggcgagag gcgagggccc ctgtcgccag ggagagggga 300

gggtgggccc ggccatggct gtcgggagt ggcagggacc agagagctcc ttcttccttt 360
gtcgtgaaga ggggtgctggg aggatgaaca ctcttgaagt tggaggaggg atttta 416

<210> 10
<211> 436
<212> DNA
<213> Human

<400> 10
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ccgtgcgtgc accaggggtga gttaggtgtg cagcacctga gagggcttat taaggggcct 120
tggccctact gaggggtcta gtctggatgc ttccccccag gttgacttct ggcattccga 180
tcagtgaac atgatcaatg gaacttctgg gcaaagtgg ccgcccttca tgactcctga 240
gtcctcgctg gagttctaca gcccgagggc ctgccggtaa tcaactgggac tcggggcctc 300
ctgggtttcc tgggtagctc atggccaaat tctgtggtgt tggctgtgca cttggaaagc 360
attttgactc atcgtggatt tgactcagta gcccttggca ccagcttgaa ttctctttgg 420
tcacaccacc aaaagc 436

<210> 11
<211> 481
<212> DNA
<213> Human

<220>
<223> All occurrences of n = any nucleotide

<400> 11
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cgggtctggg tgtccctct catcctgtct gtccctgca gatccatgaa gctaattgtac 180
aaggagtcag ggggtgttga aggcattccc acctatcgtc tcgtggctcc caaaaccctg 240
tttgccaacg ggtccatcta cccaccaac gaaggcttct gcccgctgct ggagtctgga 300
attcagaacg tcagcagctg caggttcagt acgtgccgtc ccctgttctg ggatngccgg 360
aggggtgttag gtnnngggca cctnanggtt tatctgccca atgctgtctg cttaattctct 420
ggcctctgta ctcttgataa cccattaagc caaaaatatg atgcctctgg gacgatatct 480
g 481

<210> 12
 <211> 430
 <212> DNA
 <213> Human

<400> 12
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 atactgtcgt tgtatgatgt cccctccctg cccttggtgt aggtgcccc ttgtttctct 180
 cccatcctca cttcatcaac gccgaccggg ttctggcaga agcggtgact ggcctgcacc 240
 ctaaccagga ggcacactcc ttgttcgtgg acatccaccc ggtgagcccc tgccatcctc 300
 tgtgggggggt ggggtgattcc tggttggagc acacctgggt gcctcctctc tccccaggca 360
 gagagctgct gtgggctggg gtgggtggaa gcctggcttc tagaatctcg agccacaaaa 420
 gttccttact 430

<210> 13
 <211> 390
 <212> DNA
 <213> Human

<220>
 <223> All occurrences of n = any nucleotide

<400> 13
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 ggggtggcca gtctcctcac tgtgtttgtt gccgcaggtc acgggaatcc ccatgaactg 180
 ctctgtgaaa ctgcagctga gcctctacat gaaatctgtc gcaggcattg ggtgagtggg 240
 gactgggaac tggggctgca ttgtcattg agagattang tgctcagtgc tccagtgttc 300
 ccagactccc ctgacatacc ccaggaaaca gggcatgggg aaggagagg gtcctattgg 360
 gggtggaatc cagtcctctg tgatcttctc 390

<210> 14
 <211> 370
 <212> DNA
 <213> Human

<400> 14
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 aaaattatac taaacctgtt tagatgttgt attcaagcag aattagatca agtttgggtg 120

taagactttg ttccaacacc tatgtcttgc ttatttccag acaaactggg aagattgagc 180
 ctgtggctct gccgctgctc tggtttgcag aggtaagggt gcgttgggca cagcgtcggg 240
 ggcttttgtt aatagccaat gtgggcattt gaggcaggag gcggggggag caccttgtag 300
 aaaggagag ggctgagcca gggtaaccgg actgttacat ggaccagcgt atcatacact 360
 tcacctgtc 370

<210> 15
 <211> 470
 <212> DNA
 <213> Human

<400> 15
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 agcctgcggc cccagctcat gtgtttgtca ttctgtctcc tcagagcggg gccatggagg 180
 gggagactct tcacacattc tacactcagc tgggtgtgat gccaagggtg atgcactatg 240
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 tccggagcca agtaggtgct ggccagaggg cagcccgggc tgacagccat tcgcttgctt 360
 gctgggggaa aggggcctca gatcggaccc tctggccaac cgcagcctgg agcccacctc 420
 cagcagcagt cctgcgtctc tgccggagtg ggagcgggtc ctgctggggg 470

<210> 16
 <211> 450
 <212> DNA
 <213> Human

<400> 16
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 tctgttttcc tctttgcctt ttgcaaattg aagaaccgtg taaaaccatt tttatgtggc 120
 ttcaacgtca actataaatt agcttgggtt tcttctagga gaaatgctat ttattttgga 180
 gtagtagtaa aaagggtca aaggataagg aggcattca ggcctattct gaatccctga 240
 tgacatcagc tcccaagggc tctgtgctgc aggaagcaaa actgtagggt ggtaccaggt 300
 aatgccgtgc gctccccgc cccctcccat atcaagtaga atgctggcgg cttaaaacat 360
 ttggggctct gctattcct tcagcctcaa cttcacctgg agtgtctaca gactgaagat 420
 gcatatttgt gtattttgct tttggagaaa 450

<210> 17
 <211> 544
 <212> DNA
 <213> Human

<400> 17
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 ggggttcctg ggtgggctgg cgaagtccta ctacagtgga ccaaccatga tgatgggtccc 120
 gatagaggag gagagggagg aggagggaaa aggaagggtg aggggctcag aggggagagc 180
 tgggaggagg ggagacatag gtgggggaag gggtaggaga aaggggaagg gagcaagagg 240
 gtgaggggca ccaggcccca tagacgtttt ggctcagcgg ccacgaggct tcatcagctc 300
 ccgccccaaa acggaagcga ggccgtgggg gcagcggcag catggcgggg cttgtcttgg 360
 cggccatggc cccgccccct gcccgctcca tcagcgcccc gcccgctccc cggcccgacc 420
 ccgccccggg cccgctcagg cccgccccct gccgcccga tccggaagcc caaggctgcc 480
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 ctcc 544

<210> 18
 <211> 190
 <212> DNA
 <213> Human

<400> 18
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 cgggaggacc cgcgcggtgc ggtgggtggg cgaccgcagc ggaatcggcg cccgggcctg 120
 gcgcccagga acacgaggga ggccaggcgc ttcgggaggg gctgctgccc gcctccccac 180
 caccctcacc 190

<210> 19
 <211> 159
 <212> DNA
 <213> Human

<400> 19
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 cttccctggc cgggctcggg cagctgttcc ggagccttgt ggtggggcgt ggggcccctca 120
 tcactctcct cacaagcgta cttgtccctt ccctgcag 159

<210> 20
 <211> 162

<212> DNA
<213> Human

<400> 20
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caagtggacg ggatggggag gctgctgact gacccccaaa cattgttccg gaagcacgca 120
actcatagtc ggggtaagtg ctactcccaa aaaagtttgc gt 162

<210> 21
<211> 191
<212> DNA
<213> Human

<400> 21
catgtcctgc agtgggcagg cagcgggagg gacagacttg gcgaaggggc cgagctcagc 60
tttggtctgtg gggccggagg tgtgcacaga cgtccagggc ccctggttcc caggcaggca 120
ttgcaggcga gtagaaggga aacgtcccat gcagcggggc ggggcgtctg acccactggc 180
ttccccacac g 191

<210> 22
<211> 162
<212> DNA
<213> Human

<400> 22
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ccgcctgccc cttgtgcaga gaggcagtcct tgagggtggtc ggagcgtggg gactcacgcc 120
tggtgggtgg ctttcggccc tgtgctgtct ccaccacccc ca 162

<210> 23
<211> 161
<212> DNA
<213> Human

<400> 23
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atttcccttc atgggctctt tgctgtgagg ccagctggg gccaaaggag gatgggccag 120
ccacgtccag cctctgacac tagtgtccct tcgccttgca g 161

<210> 24
<211> 162
<212> DNA
<213> Human

<400> 24
gtacgtgtgg cctggtgaga agccaaagat tcaggcctgt gtcctgtctt cccctcacac 60
agcctggaca ctggtcacca gcttgctttg tagctggctg gggatctagt ggctgtgggt 120
tgtaagtga tgagaacctg actcaaaccg gcttgagtga aa 162

<210> 25
<211> 160
<212> DNA
<213> Human

<400> 25
cctctcgggc cccagacact gggcatttgg cagtgaacca gatgctgggg gccctgtcct 60
tctggtggag ggggaggagg gctcagccca gaatgttcag accaggccgg ctcaatggca 120
ggcctaagcc ttacgatgct gttccctgct gtgtctgtag 160

<210> 26
<211> 160
<212> DNA
<213> Human

<400> 26
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ggctgctcgg gaggggcagg gaccagagag ctcttcttc ctttgcgtg aagagggtgc 120
tgaggaggatg aacactcttg aagttggagg agggatttta 160

<210> 27
<211> 160
<212> DNA
<213> Human

<400> 27
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ccgtgcgtgc accagggtga gttagggtgtg cagcacctga gagggcttat taaggggcct 120
tgccoctact gaggggtcta gtctggatgc ttccccccag 160

<210> 28
<211> 160
<212> DNA
<213> Human

<400> 28
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gtgttggtgtg tgcacttgga aagcattttg actcatcgtg gatttgactc agtagccctt 120

ggcaccagct tgaattctct ttggtcacac caccaaaagc 160

<210> 29
 <211> 161
 <212> DNA
 <213> Human

<400> 29
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 cgcccgctggg gagaagtggc tggatctggg cagcctttgg cagggcctgg ctctggccgc 120
 cgggtctggg tgtccctctc catcctgtct gtccctgca g 161

<210> 30
 <211> 153
 <212> DNA
 <213> Human

<220>
 <223> All occurrences of n = any nucleotide

<400> 30
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 tttatctgcc caatgctgtc tgcttaatct ctggcctctg tactcttgat aaccattaa 120
 gccaaaaata tgatgcctct gggacgatat ctg 153

<210> 31
 <211> 162
 <212> DNA
 <213> Human

<400> 31
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 cgggggtgcc gtgcagacca cagctctgtg cagacttccg gagtggcagg acgtgccaat 120
 atactgtcgt tgtatgatgt cccctccctg cccttgttgt ag 162

<210> 32
 <211> 149
 <212> DNA
 <213> Human

<400> 32
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 cctcctctct cccaggcag agagctgctg tgggctgggg tgggtgggaag cctggcttct 120
 agaattctga gccaccaaag ttccttact 149

<210> 33
 <211> 157
 <212> DNA
 <213> Human

<400> 33
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 gacgcccacc ctcttgactg ggaccaggga aaagaagggt gactgtgtcc ctggagcttg 120
 ggggtggcca gtctcctcac tgtgtttggt gccgcag 157

<210> 34
 <211> 159
 <212> DNA
 <213> Human

<220>
 <223> All occurrences of n = any nucleotide

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 ccagtgttcc cagactcccc tgacataccc caggaaacag ggcattggga agggagaggg 120
 tcctattggg ggtggaatcc agtccctgct gatcttctc 157

<210> 35
 <211> 160
 <212> DNA
 <213> Human

<400> 35
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 aaaattatac taaacctgtt tagatgttgt attcaagcag aattagatca agtttgggtg 120
 taagactttg ttccaacacc tatgtcttgc ttatttccag 160

<210> 36
 <211> 158
 <212> DNA
 <213> Human

<400> 36
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 ggcaggaggc ggggggagca ccttgtagaa agggagaggg ctgagccagg gtaaccggac 120
 tgttacatgg accagcgtat catacacttc accctgtc 158

<210> 37

<211> 164
 <212> DNA
 <213> Human

<400> 37
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 ggggaaaagc tgaggcgggc acagaggaag gtgttgggtg gcatctgcgc ttagccccgc 120
 agcctgcggc cccagctcat gtgtttgtca ttctgtctcc tcag 164

<210> 38
 <211> 159
 <212> DNA
 <213> Human

<400> 38
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 ctgcgtctct gccggagtgg gagcggtcac tgctggggg 159

<210> 39
 <211> 158
 <212> DNA
 <213> Human

<400> 39
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 tctgtttcc tctttgcctt ttgcaaattg aagaaccgtg taaaaccatt tttatgtggc 120
 ttcaacgtca actataaatt agcttggtta tcttctag 158

<210> 40
 <211> 163
 <212> DNA
 <213> Human

<400> 40
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 oggcttaaaa catttggggc cctgctcatt ccttcagcct caacttcacc tggagtgtct 120
 acagactgaa gatgcatatt tgtgtatatt gcttttggag aaa 163

<210> 41
 <211> 23
 <212> DNA
 <213> Human

<400> 41

cccctgccgc cggaatcctg aag

23

<210> 42

<211> 24

<212> DNA

<213> Human

<400> 42

cgctttggcg gagcagccca tgtc

24

<210> 43

<211> 24

<212> DNA

<213> Human

<400> 43

tggggccctc atcactctcc tcac

24

<210> 44

<211> 23

<212> DNA

<213> Human

<400> 44

gcagcctccc catcccgccc act

23

<210> 45

<211> 18

<212> DNA

<213> Human

<400> 45

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18

<210> 46

<211> 18

<212> DNA

<213> Human

<400> 46

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18

<210> 47

<211> 20

<212> DNA

<213> Human

<400> 47

tgggctcttt gctgtgaggc

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<210> 48
<211> 20
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<213> Human

<400> 48
ccaggctgtg tgaggggaag 20

<210> 49
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<212> DNA
<213> Human

<400> 49
gcccagaatg ttcagaccag 20

<210> 50
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<213> Human

<400> 50
gcaccctctt cacgacaaag 20

<210> 51
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<212> DNA
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<400> 51
cacctgagag ggcttatta 19

<210> 52
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<400> 52
caaaatgctt tccaagtgc 19

<210> 53
<211> 20
<212> DNA
<213> Human

<400> 53
gccgccgggt ctgggtgtcc 20

<210> 54
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<213> Human

<400> 54

cagaggccag agattaagca gac

23

<210> 55

<211> 20

<212> DNA

<213> Human

<400> 55

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<210> 56

<211> 20

<212> DNA

<213> Human

<400> 56

ttcccaccac cccagcccac

20

<210> 57

<211> 20

<212> DNA

<213> Human

<400> 57

ggttgactgt gtccttgag

20

<210> 58

<211> 21

<212> DNA

<213> Human

<400> 58

gggaacactg gagcactgag c

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<210> 59

<211> 20

<212> DNA

<213> Human

<400> 59

ggtggtgagg gtttagtgtg

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<210> 60

<211> 20

<212> DNA

<213> Human

<400> 60

ctccccccgc ctcttgctc 20

<210> 61
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 <213> Human

<400> 61
 aaggtgttgg gtggcatctg 20

<210> 62
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 <212> DNA
 <213> Human

<400> 62
 ggctccaggc tgcggttggc 20

<210> 63
 <211> 19
 <212> DNA
 <213> Human

<400> 63
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 atactgtcgt tgtatgatgt cccctccctg cccttgttgt aggtgcccc ttgtttctct 180
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<400> 113
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<400> 117
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